- 6. (Amended) The via of claim 12, wherein the second interconnect is electrically connected to the ground plane of the circuit such that a voltage drop of the circuit approaches zero.
- 7. (Amended) The via of claim 12, wherein the first plurality of conductive layers and the second plurality of conductive layers are located in a single printed circuit board.
- 8. (Amended) The via of claim 12, wherein the first plurality of conductive layers and the second plurality of conductive layers are located in a monolithically integrated set of two or more printed circuit boards.
 - (Amended) A printed circuit board comprising:
 a plurality of vias according to claim 12.

Please add new claims 12-16 as follows:

12. (New) A via for use in a multilayer printed circuit board having a circuit, the printed circuit board including a first plurality of conductive layers and a second plurality of conductive layers, the first and second plurality of conductive layers being interleaved in a first direction which extends parallel to an axis of the via, the via comprising:

a first interconnect located about the axis of the via and electrically connecting the first plurality of conductive layers to a signal net of the circuit; and a second interconnect having a portion located about the first interconnect for electrically connecting the second plurality of conductive layers to a ground plane of the circuit,

wherein the second interconnect is coaxial with the first interconnect and is inductively coupled with the first interconnect.

- 13. (New) The via of claim 12, wherein the via has a length in the first direction from a first surface of the multilayer printed circuit board to a second surface of the multilayer printed circuit board, and wherein the first interconnect has a length that is coextensive in length with the via.
- 14. (New) The via of claim 13, wherein the second interconnect has a length that is no more than the length of the first interconnect, the second interconnect parallel to the first interconnect along an entire length of the second interconnect.

- 15. (New) The via of claim 14, wherein the entire length of the second interconnect is in one plane.
- 16. (New) A multilayer printed circuit board having a circuit, the multilayer circuit board comprising:
 - a first plurality of conductive layers;
- a second plurality of conductive layers, the first and second plurality of conductive layers being interleaved in a first direction which extends parallel to an axis of the via; and

a via including a first interconnect, the first interconnect located about the axis of the via and electrically connecting the first plurality of conductive layers to a signal net of the circuit, and a second interconnect, the second interconnect located about at least a portion of the first interconnect and electrically connecting the second plurality of conductive layers to a ground plane of the circuit,

wherein the second interconnect is coaxial with the first interconnect along its length in the first direction and is inductively coupled with the first interconnect.